

Notice of AllowabilityApplication No. **10/502,471**Applicant(s) **SCHULZE ET AL.**

Examiner

Art Unit

Hongmin Fan

2631

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to application filed on 07/22/2004.
2. ☒ The allowed claim(s) is/are 1-20.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some* c) ☐ None of the:
- ☒ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|---|
| 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input checked="" type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date <u>12/7/2004</u> . |
| 3. <input checked="" type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date <u>07/22/2004</u> | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |

Examiner's Amendment

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Catherine Gemrich on 12/7/2005.

The application has been amended as follows:

a) The claim 1 has been changed to as follows:

Claim 1 (current amended),

Method for operating a ~~device~~ wheel electronics for monitoring and wireless signaling a pressure or a pressure change in pneumatic tires of wheels on vehicles, ~~the device being hereinafter referred to as wheel electronics~~ wherein the pressure prevailing in the pneumatic tire is measured and electric pressure signals are derived from such measurements, and an information signal containing information on the pressure or on a pressure change is transmitted, the information signal being intended to be received by a receiver provided in or on the vehicle, the wheel electronics being set by a first control signal, which is transmitted in wireless fashion from outside the wheel electronics, to a first mode of operation in which the prevailing pressure or a pressure change is measured and signaled in response to the receipt of an interrogation signal generated outside the wheel electronics and transmitted to the wheel electronics in wireless fashion, and, if the wheel electronics do not receive another interrogation signal within a predetermined period of time after receipt of an interrogation signal, the wheel electronics adopting itself a second mode of operation in which the pressure or a pressure change is measured repeatedly and is transmitted at a transmission rate which is firmly preset or is variable and which is established in the wheel electronics for that second mode of operation.

Art Unit: 2631

b) The claim 4 has been changed to as follows:

Claim 4 (currently amended),

The method as defined in claim 1, wherein the ~~same measuring rates are used~~ measurements are taken at the same rates for the first and second modes of operation.

c) The sentence on page 7 lines 17-18 in the specification has been changed to as follows:

The third control signal can be derived with advantage from the action of switching off the motor or locking the vehicle, for example.

d) The abstract has been changed to as follows:

The invention describes a method for operating a device for monitoring and wireless signalling a pressure or a pressure change in pneumatic tires of wheels on vehicles, the device being hereinafter referred to as wheel electronics, wherein the pressure prevailing in the pneumatic tire is measured and electric pressure signals are derived from such measurements, and an information signal containing information on the pressure or on a pressure change is transmitted, the information signal being intended to be received by a receiver provided in or on the vehicle, the wheel electronics being set by a first control signal, which is transmitted in wireless fashion from outside the wheel electronics, to a first mode of operation in which the prevailing pressure or a pressure change is measured and signalled in response to the receipt of an interrogation signal generated outside the wheel electronics and transmitted to the wheel electronics in wireless fashion, and, if the wheel electronics do not receive another interrogation signal within a predetermined period of time after receipt of an interrogation signal, the wheel electronics adopting itself a second mode of operation in which the pressure or a pressure change is measured repeatedly and is transmitted at a transmission rate which is firmly preset or is variable and which is established in the wheel electronics for that second mode of operation.

Allowable Subject Matter

2. Claims 1-20 are allowed. The following is an examiner's statement of reasons for allowance: Prior art fails to show a wheel pressure monitor system having a first mode set by a first control signal which is transmitted in wireless fashion from outside the wheel monitor system, and in the first mode the prevailing pressure or a pressure change is measured; then the measurement is transmitted to the wheel monitor system in wireless fashion upon receipt of an interrogation signal generated outside the wheel monitor system; further if the system does not receive another interrogation signal within a predetermined period of time after receipt of an interrogation signal, the wheel system adopts to a second mode of operation in which the pressure or a pressure change is measured repeatedly and is transmitted at a transmission rate which is firmly preset or is variable and which is established in the wheel system for that second mode of operation.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Kulka disclosed a two modes pressure monitor with remote interrogation (US 6087930).

Kessler disclosed a method for monitoring tire pressure with increased transmission frequency when the pressure decreases rapidly (US 6445286).

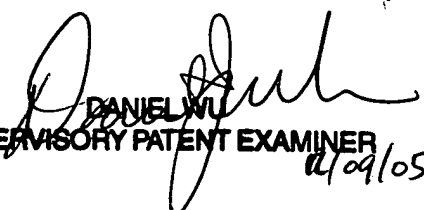
McClelland disclosed a remote tire monitoring system with sleep mode and more frequent transfer when the pressure decreases rapidly (US 5963128).

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hongmin Fan whose telephone number is 571-272-2784. The examiner can normally be reached on Monday - Friday, 8:30 am - 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Daniel Wu can be reached on 571-272-2964. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

HF
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DANIEL WU
SUPERVISORY PATENT EXAMINER
4/29/05